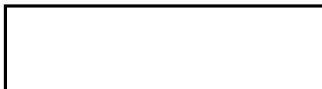


SECRET

MONTHLY REPORT



PAR 222

1 May 64

SUBJECT: Stereo Registration System

TASK/PROBLEM

1. Investigate possible means for automatically maintaining proper registration for stereo viewing on rear projection and direct viewing roll film viewers.

DISCUSSION

2. Design effort on the mechanical-optical breadboard should be largely completed during the week of 4 May. The breadboard will contain a P16 phosphor flying spot cathode ray tube (CRT) scanner, two stages for mounting the stereo pair, two photomultipliers to collect the scan spot after transmission through the negatives, and a pair of zoom lenses which serve the dual purpose of focussing the scan image on the negatives and also on the imaging elements for visual observation of the stereo image.

3. A quick bench check was performed to determine the electrical signal-to-noise ratio obtainable with the chosen CRT, photomultiplier, and imaging lens aperture. The signal-to-noise ratio obtained will be satisfactory to prove the feasibility of the positioning system.

PLANNED ACTIVITY

4. Fabrication of the breadboard will start during the week of 4 May 64.

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GROUP 1
Excluded from automatic downgrading
and declassification